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FACSIMILE TRANSMISSION COVER SHEET

Date:

December 29, 2004

To:

United States Patent and Trademark Office

Examiner: Gurley, Lynne Ann; Art Unit: 2812

Fax:

(703) 872-9306

Re:

Application Serial No.: 10/626,371

Filing Date: 7/23/2003; First Named Inventor: Lopatin

Attorney Docket No.: 0180204D

From:

Farjami & Farjami LLP

Number of pages including the cover sheet: 16

Message:

Enclosed please find the Amendment and Response to the Non-Final Office Action dated December 10, 2004 and four (4) Terminal Disclaimers. Payment for the Terminal Disclaimers Filing Fee in the total amount of \$520.00 is hereby enclosed on four sheets of Form PTO-2038.

Thank you.

The documents accompanying this facsimile contain PRIVILEGED AND CONFIDENTIAL information intended only for use of the individual or entity named above. If you are not the intended recipient, disclosure, copying, distribution or use of the contents of this facsimile information is prohibited. If you have received this facsimile in error, please immediately notify us by telephone and return the original facsimile to us at the above address via U.S. Postal Service. We will reimburse you for all expenses incurred.

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225.00

510.00 795.00 \$

Attorney Docket No.: 0180204D

AMENDMENT COVER SHEET

IN RE APPLICATION OF: Lopatin, et al.			4.	
SERIAL NO.: 10/626,371 FILED: 07/23/2003				
FOR: Semiconductor Device Having Copper Lines with Redu Zinc Alloy Thin Film on a Copper Surface	ced Electromigration Us	sing an Electroplated I	nterim Copper-	
HONORABLE COMMISSIONER FOR PATENTS P.O. Box 1450, Alexandria, VA 22313-1450				
Sir/Madam:				
Transmitted herewith is a paper in the above-identified applica is hereby requested.	tion. Any necessary ext	ension of time period	set for this paper	
☐ No additional fee is required.				
The fee has been calculated as shown below:				
□ EXTENSION FEE	RATE Non-Small Entity	RATE Small-Entity	FEE	
FIRST MONTH AFTER TIME PERIOD SET	120.00	60.00	\$	

450.00

1,020.00

1,590.00

☐ TOTAL EXTENSION FEE \$ 0.00

SECOND MONTH AFTER TIME PERIOD SET
THIRD MONTH AFTER TIME PERIOD SET

FOURTH MONTH AFTER TIME PERIOD SET

☐ FEE FOR EXTRA CLAIMS added by Amendment in this response:

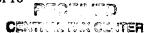
	Column 1	Column 2	Column 3			-
	Number of Claims after Amendment	Number Previously Paid for	Number of Extra Claims	RATE Non-Small Entity	RATE Small Entity	FEE
TOTAL CLAIMS	20	MINUS **20	*=0	x 50	x 25	\$
INDEPENDENT	3	MINUS ***3	*=0	x 200	x 100	\$
First presentation of multiple dependent claim				+ 360	+ 180	\$

TOTAL FEE FOR EXTRA CLAIMS \$ 0.00

- * If the entry in Column 1 is less than the entry of Column 2, write "0" in Column 3.
- ** If the number of Total Claims previously paid for is less than 20, write "20" in this space.
- *** If the number of Independent Claims previously paid for is less than 3, write "3" in this space.

		Attorney Docket No.: 0180204D		
	Total fee for Supplemental Information Disclosure Statement \$			
\boxtimes	Fee for four (4) enclosed terminal disclaimers: \$ 520.00			
\boxtimes	Enclosed is the total fee of \$ 520	.00 (Payment by Credit Card, Form PTO-2038 Enclosed).		
	Please charge Deposit Account No. 50-0731 in the amount of \$			
×	The Commissioner is hereby author credit any overpayment to Dep	norized to charge payment of any additional fees associated with this communication, posit Account No. 50-0731. A duplicate copy of this sheet is enclosed.		
Date:	12/29/04	By: Michael Farjami, Reg. No. 38,135		
Farjami 26522 L Mission Telephon	Farjami, Esq. & Farjami LLP a Alameda Ave., Suite 360 Viejo, CA 92691 ne: (949) 282-1000 e: (949) 282-1002	CERTIFICATE OF PACSIMILE TRANSMISSION I hereby certify that this correspondence is being filed by facsimile transmission to United States Patent and Trademark Office at facsimile number 703-872-9306 on the date stated below. The facsimile transmission report indicated that the facsimile transmission was successful. 12 /24 / c		
		CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Palents, P.O. Box 1450, Alexandria, VA 22313-1450, on:		
		Signature		

Typed or Printed Name of Person Mailing Paper and/or Fee



DEC 2 9 2004

Attorney Docket No.: 0180204D

AMENDMENT COVER SHEET

N RE APPLICATION OF: Lopatin, et al.	
ERIAL NO.: 10/626,371 FILED: 07/23/2003	
OR: Semiconductor Device Having Copper Lines with Reduced Electromigration Using an Electroplated Interim Coppe	er
inc Alloy Thin Film on a Copper Surface	

HONORABLE COMMISSIONER FOR PATENTS P.O. Box 1450, Alexandria, VA 22313-1450

Sir/Madam:

Transmitted herewith is a paper in the above-identified application. Any necessary extension of time period set for this paper is hereby requested.

- ☐ No additional fee is required.
- ☑ The fee has been calculated as shown below:

□ EXTENSION FEE	RATE Non-Small Entity	RATE Small-Entity	FEE
FIRST MONTH AFTER TIME PERIOD SET	120.00	60.00	\$
SECOND MONTH AFTER TIME PERIOD SET	450.00	225.00	\$
THIRD MONTH AFTER TIME PERIOD SET	1,020.00	510.00	\$
FOURTH MONTH AFTER TIME PERIOD SET	1,590.00	795.00	. \$

- ☐ TOTAL EXTENSION FEE \$ 0.00
- ☐ FEE FOR EXTRA CLAIMS added by Amendment in this response:

	Column 1	Column 2	Column 3			
	Number of Claims after Amendment	Number Previously Paid for	Number of Extra Claims	RATE Non-Small Entity	RATE Small Entity	FEE
TOTAL CLAIMS	20	MINUS **20	* = 0	x 50	x 25	\$
INDEPENDENT	3	MINUS ***3	*=0	x 200	x 100	\$
First presentation of multiple dependent claim				+ 360	+ 180	\$

TOTAL FEE FOR EXTRA CLAIMS \$ 0.00

- * If the entry in Column 1 is less than the entry of Column 2, write "0" in Column 3.
- ** If the number of Total Claims previously paid for is less than 20, write "20" in this space.
- *** If the number of Independent Claims previously paid for is less than 3, write "3" in this space.

		Attorney Docket No.: 0180204D
	Fee for four (4) enclosed term Enclosed is the total fee of \$ 5 Please charge Deposit Account The Commissioner is hereby a	formation Disclosure Statement \$ inal disclaimers: \$ 520.00 20.00 (Payment by Credit Card, Form PTO-2038 Enclosed). It No. 50-0731 in the amount of \$ intuitionized to charge payment of any additional fees associated with this communication, Deposit Account No. 50-0731. A duplicate copy of this sheet is enclosed.
Date: _	12/29/04	By: Michael Farjami, Reg. No. 38,135
Farjami 26522 L Mission Telepho	Farjami, Esq. & Farjami LLP a Alameda Ave., Suite 360 Viejo, CA 92691 ne: (949) 282-1000 le: (949) 282-1002	CERTIFICATE OF FACSIMILE TRANSMISSION I hereby certify that this correspondence is being filed by facsimile transmission to United States Patent and Trademark Office at facsimile number 703-872-9306 on the date stated below. The facsimile transmission report indicated that the facsimile transmission was successful. IZ / 29 / v

Typed or Printed Name of Person Mailing Paper and/or Fee

Signature

DEC 2 9 2004

Attorney Docket No.: 0180204D

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Lopatin, et al.

Serial No.: 10/626,371

Filed: 07/23/2003

For: Semiconductor Device Having Copper Lines with Reduced Electromigration Using an Electroplated Interim Copper-Zinc Alloy Thin Film on a Copper

Surface

Art Unit: 2812

Examiner: Gurley, Lynne Ann

AMENDMENT AND RESPONSE TO NON-FINAL OFFICE ACTION

Honorable Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir/Madam:

This is in response to the Non-Final Office Action dated December 10, 2004 in the above-referenced patent application. Please enter and consider the following amendments and remarks. Four (4) terminal disclaimers are also filed herewith.